

Advancement Handbook for Aviation Structural Mechanic (Hydraulics)

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PREFACE

The purpose of the Advancement Handbook is to help you focus your preparation for Navywide advancement-in-rating examinations. The bibliographies (BIBs) together with this handbook form a comprehensive examination study package. Since this handbook provides skill and knowledge components for each paygrade of the Aviation Structural Mechanic (Hydraulics) (AMH) rating, it helps you concentrate your study on those areas that may be tested. This feature will help you get the most out of your study time.

Each page in Parts 1 through 4 of this Advancement Handbook presents general skill areas, specific skill areas, the knowledge factors associated with each skill area, the pertinent references that address each skill, and the subject areas that may be covered on the examination. The skill statements describe the skills you are expected to perform for each paygrade. The skill statements are cumulative; that is, you are responsible for the skills for the paygrade you are competing for, your present paygrade, and all paygrades below.

Although this handbook is very comprehensive, it cannot cover all the tasks performed in the rating. As a result, the advancement examinations may contain questions more detailed than described in the “*Exam Expectations*” section of the skill areas.

Remember that advancement competition is keen, so your keys to advancement include not only comprehensive advancement examination study but also sustained superior performance.

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Navy Advancement Center Department,
Naval Education and Training Professional
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Part 1

Advancement Handbook for AMH3

Advancement Handbook for AMH3

General AMH <i>Skill Area</i>	FLIGHT CONTROL SYSTEMS ROTARY
A <i>skill</i> you are expected to perform from the General Skill Area above:	Maintain rotor brake systems
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Operation of helicopter rotor brake systems • Inspecting and troubleshooting rotor brake systems and related components • Removing and replacing rotor brake assemblies and related components • Repairing and overhauling rotor brake assemblies and related components (I-level) • Bench-checking rotor brake assemblies and related components (I-level) • Performing hydraulic patch test • Servicing rotor brake hydraulic systems • Applying electrical and hydraulic power to an aircraft • Performing functional checks on rotor brake systems • Performing corrosion detection, treatment, and prevention on rotor brake assemblies and related components
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3 & 2, Chapter 10 (NAVEDTRA 12338) • Aviation Maintenance Ratings, Chapter 5 (NAVEDTRA 12017) • Basic Handling & Safety Manual, Work Package 10 (NAVAIR 00-80T-96) • Aviation Hydraulics Manual, Chapters 3, 6, 8, and 9 (NAVAIR 01-1A-17) • Hose and Tube Manual, Chapters 2, 4, 6, 7, and 9 (NAVAIR 01-1A-20)

	<ul style="list-style-type: none"> • Aircraft Weapons Systems Cleaning and Corrosion Control, Chapters 2-6 and 8 (NAVAIR 01-1A-509) • All applicable NAVAIR Maintenance Instruction Manuals • All applicable activity's instructions and standard operating procedures
<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about the operations and functions of any helicopter rotor brake systems, inspection types and techniques, troubleshooting, and component repair and overhaul procedures. You can also expect questions on general maintenance, operational checks, and servicing of helicopter rotor brake systems. In addition you may also see questions relating to corrosion identification, prevention, and, treatment. These questions maybe of a general nature or specific to a type of helicopter rotor brake system.</p>

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General AMH <i>Skill Area</i>	FLIGHT CONTROL SYSTEMS ROTARY
A <i>skill</i> you are expected to perform from the General Skill Area above:	Inspect, maintain, and service main flight control systems
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Operation of helicopter flight control systems • Inspecting and troubleshooting of helicopter flight control systems and related components • Removing and replacing helicopter flight control components and related parts • Repairing, overhauling, and testing of related hydraulic components • Testing and troubleshooting of AFCS systems • Removal, repair, and replacement of AFCS components • Rigging and adjusting helicopter flight control systems and components • Performing corrosion detection, treatment, and prevention on helicopter flight control systems and related components
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3&2, Chapter 10 (NAVEDTRA 12338) • Aviation Maintenance Ratings, Chapters 4, 5, and 6 (NAVEDTRA 12017) • Aviation Hydraulics Manual, Chapters 3, 6, 8, and 9 (NAVAIR 01-1A-17) • Hose and Tubing Manual, Chapters 2, 4, 6, 7, and 9 (NAVAIR 01-1A-20) • Aircraft Weapons Systems Cleaning and Corrosion Control, Chapters 2, 3, 4, 5, 6, and 8 (NAVAIR 01-1A-509) • Basic Handling & Safety Manual, Work Package 10 (NAVAIR 00-80T-96)

	<ul style="list-style-type: none"> • Naval Aviation Maintenance Program, Volume 5 (OPNAVINST 4790.2) • All applicable NAVAIR Maintenance Instruction Manuals • All applicable activity's instructions and standard operating procedures
<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about the types, operations, and functions of any of the helicopter flight control systems. You can also expect questions about inspection types, testing, troubleshooting, removal and replacement of different components of the helicopter flight control systems. You may also see questions regarding rigging, adjusting, aligning, and servicing helicopter flight control systems. In addition you may see questions relating to corrosion identification, prevention, and treatment. These questions maybe of general nature of specific to a particular helicopter flight control system.</p>

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General AMH <i>Skill Area</i>	FLIGHT CONTROL SYSTEMS FIXED WING
A <i>skill</i> you are expected to perform from the General Skill Area above:	Maintain fixed wing aircraft flight control systems
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Operation of flight control systems • Identifying types of flight control systems • Inspecting and testing flight control systems • Troubleshooting flight control systems • Removing and replacing components of flight control systems • Rigging flight control systems • Adjusting and aligning flight control systems • Performing hydraulic contamination checks and servicing of flight control systems • Corrosion detection, treatment, and prevention of fixed wing flight control systems
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3 & 2, Chapters 1 and 9 (NAVEDTRA 12338) • Aviation Maintenance Ratings, Chapters 4 and 5 (NAVEDTRA 12017) • General Manual for Structural Repair, Chapters 2, 4, and 9 (NAVAIR 01-1A-1) • Structural Hardware Manual, Chapters 2 and 13 (NAVAIR 01-1A-8) • Aviation Hydraulics Manual, Chapters 3, 6, 8, and 9 (NAVAIR 01-1A-17) • Aircraft Weapons Systems Cleaning and Corrosion Control, Chapter 2-6 and 8 (NAVAIR 01-1A-509) • All applicable NAVAIR Maintenance Instruction Manuals • All applicable activity's instructions and standard operating procedures

<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about the different types of flight controls, their operation and function on fixed wing aircraft, to include performing scheduled and unscheduled inspections, testing, and troubleshooting of flight control systems. You can also expect questions on repairing, removing, replacing, rigging, adjusting, and aligning flight control system, along with performing hydraulic contamination checks and servicing flight control systems. In addition you may see questions regarding corrosion identification, treatment and prevention. These questions maybe of a general nature or specific to a type of flight control system.</p>
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General AMH <i>Skill Area</i>	FLIGHT CONTROL SYSTEMS FIXED WING
A <i>skill</i> you are expected to perform from the General Skill Area above:	Maintain and repair fixed wing aircraft flight control components and surfaces
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Operation of flight control components and surfaces • Identifying the functions of flight control components and surfaces • Inspecting and testing flight control components and surfaces • Troubleshooting flight control components and surfaces • Removing and replacing components and flight control surfaces • Assessing damage to flight control surfaces • Material and hardware identification used on different flight control surfaces and components • Using special tools/kits in repairing and maintaining flight control components and surfaces • Repair procedures of different flight control surfaces and control cables • Fabrication of flight control cables (I-level) • Rigging , adjusting, and aligning flight control surfaces and control cables • Performing functional checks of flight control components, surfaces, and control cables • Applying electrical and hydraulic power to aircraft • Performing corrosion detection, treatment, and prevention of fixed wing flight control components, surfaces, and control cables

<p><i>References</i> you should study to gain the knowledge you need to perform this skill:</p>	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3 & 2, Chapters 1 and 9 (NAVEDTRA 12338) • Aviation Maintenance Ratings, Chapter 4 (NAVEDTRA 12017) • Basic Handling & Safety Manual, Work Package 10 (NAVAIR 00-80T-96) • General Manual for Structural Repair, Chapters 2-9 (NAVAIR 01-1A-1) • Structural Hardware Manual, Chapters 2-5 and 7-9 (NAVAIR 01-1A-8) • Aerospace Metals General Data and Usage Factors, Chapters 2 and 3 (NAVAIR 01-1A-9) • Aircraft Weapons Systems Cleaning and Corrosion Control, Chapters 2-6 and 8 (NAVAIR 01-1A-509) • All applicable NAVAIR Maintenance Instruction Manuals • All applicable activity's instructions and standard operating procedures
<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about the operations and functions of flight control components, surfaces, and control cables, to include inspection techniques, testing, troubleshooting, and removal and installation of flight control surfaces. You can also expect questions on fabrications of flight control cables, damage assessment and repair procedures. You may also see questions about testing, troubleshooting, and performing functional checks. In addition, you may expect questions relating to corrosion identification, treatment, and prevention on flight control surfaces, cables, and related components. These questions maybe of a general nature or specific to a particular type of flight control component, surface, or control cable.</p>

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General AMH <i>Skill Area</i>	UTILITY SYSTEMS
A <i>skill</i> you are expected to perform from the General Skill Area above:	Maintain nose gear steering systems
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Operation of nose gear steering systems • Inspecting and testing nose gear steering system • Removing and replacing nose gear steering components and related items • Repairing and overhauling of nose gear steering components (I-level) • Performing bench-checks on nose gear steering components (I-level) • Rigging nose gear steering systems • Adjusting and aligning nose gear steering systems • Servicing nose gear steering systems • Performing hydraulics patch test • Performing functional checks on nose gear steering systems • Applying electrical and hydraulic power to aircraft • Performing corrosion detection, treatment, and prevention of the nose steering gear systems
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3 & 2, Chapters 1 and 12 (NAVEDTRA 12338) • Basic Handling & Safety Manual, Work Package 10 (NAVAIR 00-80T-96) • Aviation Hydraulics Manual, Chapters 3, 6, 8, and 9 (NAVAIR 01-1A-17) • Hose and Tube Manual, Chapters 2, 4, 6, 7, and 9 (NAVAIR 01-1A-20) • Aircraft Weapons Systems Cleaning and Corrosion Control, Chapters 2-6 and 8 (NAVAIR 01-1A-509) • All applicable NAVAIR Maintenance Instruction Manuals

	<ul style="list-style-type: none"> • All applicable activity's instructions and standard operating procedures
<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about the operation of any of the nose gear steering systems and related components, to include inspection types, testing, troubleshooting, and removal and replacements of different components. You can also expect questions about rigging, adjusting, aligning, and servicing nose gear steering systems and performing hydraulic patch test. In addition you may also see questions regarding corrosion identification, treatment, and prevention on components. These questions maybe of general nature or specific to a type of nose gear steering systems.</p>

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General AMH <i>Skill Area</i>	UTILITY SYSTEMS
A <i>skill</i> you are expected to perform from the General Skill Area above:	Maintain launch bar systems
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Operation of launch bar systems • Inspecting and testing launch bar systems • Removing and replacing launch bar system components • Repairing, overhauling, and bench checking launch bar hydraulic components (I-level) • Rigging, adjusting, and aligning launch bar systems • Servicing launch bar systems • Applying electrical and hydraulic power and performing functional checks on launch bar systems. • Performing corrosion detection, treatment, and prevention on launch bar system components
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3&2, Chapter 1 and 12 (NAVEDTRA 12338) • Aircraft weapons Systems Cleaning and Corrosion Control Manual, Chapters 2, 3, 4, 5, 6, and 8 (NAVAIR 01-1A-509) • Aviation Hydraulics Manual, Chapters 3, 6, 8, and 9 (NAVAIR 01-1A-170) • Hose and Tube Manual, Chapters 2, 4, 6, 7, and 9 (NAVAIR 01-1A-20) • All applicable NAVAIR Maintenance Instructions Manuals • All applicable activity's instructions and standard operating procedures

<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about the operation of different launch bar systems and related components, to include inspection types, testing, troubleshooting, and removal and replacement of different components. You may also expect questions about rigging, adjusting, aligning, and servicing of the launch bar system. In addition you may see questions regarding corrosion identification, detection, treatment, and prevention on components. These questions maybe of general nature or specific to a particular launch bar system.</p>
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General AMH <i>Skill Area</i>	UTILITY SYSTEMS
A <i>skill</i> you are expected to perform from the General Skill Area above:	Maintain arresting gear systems
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Operation of arresting gear systems • Inspecting and testing arresting gear systems • Removing and replacing components • Rigging and adjusting arresting gear systems • Servicing arresting gear systems • Performing functional checks of arresting gear systems • Performing corrosion detection, treatment, and prevention of arresting gear components
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3&2, Chapters 1 and 12 (NAVEDTRA 12338) • Aircraft weapons Systems Cleaning and Corrosion Control Manual, Chapters 2, 3, 4, 5, 6, and 8 (NAVAIR 01-1A-509) • Aviation Hydraulics Manual, Chapters 3, 6, 8, and 9 (NAVAIR 01-1A-17) • Hose and Tube Manual, Chapters 2, 4, 6, 7, and 9 (NAVAIR 01-1A-20) • All applicable NAVAIR Maintenance Instructions Manuals • All applicable activity's instructions and standard operating procedures

<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about the operation of different types of arresting gear systems, to include inspection types, testing, troubleshooting, and removal and replacement of different components. You can also expect questions about rigging, adjusting, aligning, and servicing arresting gear systems. In addition you may see questions regarding corrosion identification, detection, treatment, and prevention. These questions maybe of general nature or specific to a type of arresting gear system or component.</p>
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General AMH <i>Skill Area</i>	UTILITY SYSTEMS
A <i>skill</i> you are expected to perform from the General Skill Area above:	Maintain wing and tail fold systems
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Operation of wing and tail fold systems • Inspecting and testing wing and tail fold systems • Removing and replacing components • Rigging and adjusting wing and tail fold systems • Servicing and performing functional checks of wing and tail fold systems • Performing corrosion detection, treatment, and prevention on wing and tail fold components
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3&2, Chapters 1 and 12 (NAVEDTRA 12338) • Aircraft weapons Systems Cleaning and Corrosion Control Manual, Chapters 2, 3, 4, 5, 6, and 8 (NAVAIR 01-1A-509) • Aviation Hydraulics Manual, Chapters 3, 6, 8, and 9 (NAVAIR 01-1A-17) • Hose and Tube Manual, Chapters 2, 4, 6, 7, and 9 (NAVAIR 01-1A-20) • All applicable NAVAIR Maintenance Instructions Manuals • All applicable activity's instructions and standard operating procedures

<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about the operation of different types of wing and tail fold systems, to include inspection types, testing, troubleshooting, and removal and replacement of different components. You can also expect questions about rigging, adjusting, aligning, and servicing wing and tail fold systems. In addition you may see questions regarding corrosion identification, detection, treatment, and prevention. These questions maybe of general nature or specific to a type of wing and tail fold system or component.</p>
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General AMH <i>Skill Area</i>	UTILITY SYSTEMS
A <i>skill</i> you are expected to perform from the General Skill Area above:	Maintain and test in-flight refueling (IFR) systems
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Operation of in-flight refueling systems • Inspecting and testing in-flight refueling systems • Removing and replacing IFR system components • Rigging and adjusting in-flight refueling systems • Servicing and performing functional checks of in-flight refueling systems • Performing corrosion detection, treatment, and prevention on in-flight refueling components
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3&2, Chapters 1 and 12 (NAVEDTRA 12338) • Aircraft weapons Systems Cleaning and Corrosion Control Manual, Chapters 2, 3, 4, 5, 6, and 8 (NAVAIR 01-1A-509) • Aviation Hydraulics Manual, Chapters 3, 6, 8, and 9 (NAVAIR 01-1A-17) • Hose and Tube Manual, Chapters 2, 4, 6, 7, and 9 (NAVAIR 01-1A-20) • All applicable NAVAIR Maintenance Instructions Manuals • All applicable activity's instructions and standard operating procedures

<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about the operation of different types of in-flight refueling systems, to include inspection types, testing, troubleshooting, and removal and replacement of different components. You can also expect questions about rigging, adjusting, aligning, and servicing in-flight refueling systems. In addition you may see questions regarding corrosion identification, detection, treatment, and prevention. These questions maybe of general nature or specific to a type of in-flight refueling system or component.</p>
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General AMH <i>Skill Area</i>	UTILITY SYSTEMS
A <i>skill</i> you are expected to perform from the General Skill Area above:	Maintain windshield wiper systems
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Operation of windshield wiper systems • Inspecting and testing windshield wiper systems • Removing and replacing components • Rigging and adjusting windshield wiper systems • Servicing and performing functional checks of windshield wiper systems • Performing corrosion detection, treatment, and prevention on windshield wiper components
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3&2, Chapters 1 and 12 (NAVEDTRA 12338) • Aircraft weapons Systems Cleaning and Corrosion Control Manual, Chapters 2, 3, 4, 5, 6, and 8 (NAVAIR 01-1A-509) • Aviation Hydraulics Manual, Chapters 3, 6, 8, and 9 (NAVAIR 01-1A-17) • Hose and Tube Manual, Chapters 2, 4, 6, 7, and 9 (NAVAIR 01-1A-20) • All applicable NAVAIR Maintenance Instructions Manuals • All applicable activity's instructions and standard operating procedures

<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about the operation of different types of windshield wiper systems, to include inspection types, testing, troubleshooting, and removal and replacement of different components. You can also expect questions about rigging, adjusting, aligning, and servicing windshield wiper systems. In addition you may see questions regarding corrosion identification, detection, treatment, and prevention on components. These questions maybe of general nature or specific to a type of windshield wiper system or component.</p>
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General AMH <i>Skill Area</i>	LANDING GEAR SYSTEMS MAINTENANCE
A <i>skill</i> you are expected to perform from the General Skill Area above:	Maintain, inspect, and service main and nose landing gear systems
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Operation of main and nose landing gear systems • Troubleshooting main and nose landing gear systems • Removing and replacing main and nose landing gear and related components • Adjusting and aligning main landing gear systems • Adjusting and aligning nose landing gear systems • Rigging of main and nose landing gear systems • Servicing main and nose landing gear hydraulic and pneumatic systems • Applying electrical and hydraulic power to aircraft • Performing corrosion detection, treatment, and prevention on main and nose landing gear system components
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3 & 2, Chapters 2-8 and 12 (NAVEDTRA 12338) • Aviation Maintenance Ratings, Chapter 5 (NAVEDTRA 12017) • Basic Handling & Safety Manual, Work Package 10 (NAVAIR 00-80T-96) • Aviation Hydraulics Manual, Chapters 3, 6, 8 and 9 (NAVAIR 01-1A-17) • Hose and Tube Manual, Chapters 2, 4, 6, 7, and 9 (NAVAIR 01-1A-20) • All applicable NAVAIR Maintenance Instruction Manuals • All applicable activity's instructions and standard operating procedures

<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about the operation of the main and nose landing gear systems and related components. You can also expect to see questions regarding troubleshooting, removal, and replacement of different components; and rigging, adjusting, aligning, and servicing. In addition you may see questions about support equipment operation and procedures. These questions maybe of general nature or specific to a particular type of landing gear system or equipment.</p>
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General AMH <i>Skill Area</i>	BRAKES AND WHEELS
A <i>skill</i> you are expected to perform from the General Skill Area above:	Maintain aircraft brake systems
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Operation of aircraft brake systems • Identifying types of brake systems and different brake assemblies • Troubleshooting brake systems • Jacking of aircraft • Removing and replacing brake assemblies and related components • Identifying materials and hardware used on different brake assemblies • Repair procedures for different types of brake assemblies (I-level) • Performing bench checks on different types of brake assemblies (I-level) • Adjusting and aligning brakes on aircraft • Servicing hydraulics • Applying electrical and hydraulic power • Performing corrosion detection, treatment, and prevention on aircraft brake assemblies
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3 & 2, Chapters 2, 4, 7, and 12 (NAVEDTRA 12338) • Aviation Maintenance Ratings, Chapters 4 and 5 (NAVEDTRA 12017) • Basic Handling & Safety Manual, Work Package 10 (NAVAIR 00-80T-96) • Structural Hardware Manual, Chapters 2-5 and 7-9 (NAVAIR 01-1A-8) • Aircraft Weapons Systems Cleaning and Corrosion Control, Chapters 2-6 and 8 (NAVAIR 01-1A-509)

	<ul style="list-style-type: none"> • All applicable NAVAIR Maintenance Instruction Manuals • All applicable activity's instructions and standard operating procedures
<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about different type of aircraft brake systems and assemblies, to include operating, testing, troubleshooting, and removal and replacement. You can also expect questions on adjusting, aligning, servicing, and performing hydraulic patch tests. In addition, you may also see questions regarding safety of aircraft jacking and support equipment use and operation. You may expect questions relating to corrosion detection, treatment, and prevention. These questions maybe of general nature or specific to a type of brake system.</p>

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General AMH <i>Skill Area</i>	BRAKES AND WHEELS
A <i>skill</i> you are expected to perform from the General Skill Area above:	Inspect, service, and maintain aircraft wheel and tire assemblies
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Qualifications for wheel and tire maintenance (O-level and I-level) • Identifying different types of aircraft wheels, tires and tubes • Inspecting, testing and troubleshooting aircraft tires and wheels • Aircraft jacking procedures • Removing and replacing wheel assemblies • Repairing and overhauling aircraft wheel assemblies (I-level) • Identifying materials and hardware used on different types of aircraft wheel assemblies (i.e. nuts, bolts, bearings, felts, packing) • Qualification and operation procedures for support equipment required (I-level and O-level) • Performing corrosion detection, treatment, and prevention on aircraft wheel assemblies
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3 & 2, Chapters 2 and 11 (NAVEDTRA 12338) • Aviation Maintenance Ratings, Chapters 4 and 5 (NAVEDTRA 12017) • Basic Handling and Safety Manual, Work Package 10 (NAVAIR 00-80T-96) • Structural Hardware, Chapters 2, 4, 5, 7, and 8 (NAVAIR 01-1A-8) • Maintenance of Aeronautical Anti-friction Bearings, Chapters 2, 3, 4, 5, 6, 7, 10, and 11 (NAVAIR 01-1A-503)

	<ul style="list-style-type: none"> • Aircraft Weapons Systems Cleaning and Corrosion Control, Chapters 2, 3, 4, 5, 6, and 8 (NAVAIR 01-1A-509) • Aircraft Wheels, Chapters 2 and 3 (NAVAIR 04-10-1) • Aircraft Tires and Tubes, Chapters 2, 3, 4, 5, and 6 (NAVAIR 04-10-506) • All applicable NAVAIR Maintenance Instruction Manuals • All applicable activity's instructions and standard operating procedures
<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about maintenance qualifications, identifying different type of wheels, tires, tubes, and miscellaneous accessories. You can also expect questions on aircraft tire and wheel assemblies, and repair procedures for I-level and O-level activities. In addition, you can expect questions about safety procedures, support equipment, and corrosion control. These questions maybe of general nature or specific to a type of aircraft wheel or tire assembly.</p>

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General AMH <i>Skill Area</i>	POWER SYSTEMS
A <i>skill</i> you are expected to perform from the General Skill Area above:	Inspect, test, troubleshoot, and maintain aircraft hydraulic power systems
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Operation of hydraulic and pneumatic power systems • Inspecting, testing, and troubleshooting hydraulic and pneumatic power systems • Removing and replacing hydraulic and pneumatic filters and components • Servicing and performing functional checks of hydraulic and pneumatic power systems • Performing corrosion detection, treatment, and prevention on hydraulic and pneumatic power system components
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3&2, Chapters 1 and 12 (NAVEDTRA 12338) • Aircraft weapons Systems Cleaning and Corrosion Control Manual, Chapters 2, 3, 4, 5, 6, and 8 (NAVAIR 01-1A-509) • Aviation Hydraulics Manual, Chapters 3, 6, 8, and 9 (NAVAIR 01-1A-17) • Hose and Tube Manual, Chapters 2, 4, 6, 7, and 9 (NAVAIR 01-1A-20) • All applicable NAVAIR Maintenance Instructions Manuals • All applicable activity's instructions and standard operating procedures

<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about the operation of different types of hydraulic and pneumatic power systems, to include inspection types, testing, troubleshooting, and removal and replacement of different components. You can also expect questions about servicing and performing hydraulic patch tests. In addition you may see questions regarding corrosion identification, detection, treatment, and prevention on components. These questions maybe of general nature or specific to a type of hydraulic or pneumatic system or component.</p>
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General AMH <i>Skill Area</i>	STRUCTURAL REPAIR/MAINTENANCE
A <i>skill</i> you are expected to perform from the General Skill Area above:	Repair and maintain aircraft access panels, doors, and cowlings
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Inspecting aircraft access panels, doors, and cowlings • Assessing damages and determining structural repairs required for specific materials • Identifying suitable materials, rivets, and hardware for structural repairs • Removing and replacing aircraft access panels, doors, cowlings, and related components • Blueprint reading • Laying out patterns for specific structural repairs • Proper use of basic tools and power tools in fabrication of aircraft panels, doors, ribs , stringers, and skins • Adjusting and aligning aircraft panels, doors, and cowlings • Performing corrosion detection, treatment, and prevention on aircraft panels, doors, cowlings and attached hardware
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3 & 2, Chapters 1, 2, and 13 (NAVEDTRA 12338) • Use and Care of Hand Tools and Measuring Tools, Chapters 2, 3, 5, 8, 12-14, 21, 22, 27, 28, and 31 (NAVEDTRA 12085) • Aviation Maintenance Ratings, Chapter 4 (NAVEDTRA 12017) • Blueprint Reading and Sketching, Chapters 1-4 and 8 (NAVEDTRA 12014) • General Manual for Structural Repair, Chapters 2- 5, 8, and 9 (NAVAIR 01-1A-1)

	<ul style="list-style-type: none"> • Structural Hardware, Chapters 2-5, 7, and 8 (NAVAIR 01-1A-8) • Aerospace Metals-General Data and Usage Factor, Chapter 3 (NAVAIR 01-1A-9) • All applicable NAVAIR Structural Repair Manuals • All applicable activity's instructions and standard operating procedures
<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about different types of metals and hardware used to repair aircraft panels, doors, and cowlings. In addition, you can expect questions about inspecting, assessing structural damage, and adjusting and aligning different access panels, doors and related structural components. You may also see questions about interpreting blueprints, performing pattern layouts, and corrosion prevention and treatment. These questions may be of general nature or specific to a type of aircraft panel, door, cowlings or structural repair.</p>

Advancement Handbook for AMH3

General AMH <i>Skill Area</i>	STRUCTURAL REPAIR/MAINTENANCE
A <i>skill</i> you are expected to perform from the General Skill Area above:	Repair and maintain aircraft fuselages, empennages, control surfaces, and wings
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Inspecting aircraft fuselages, empennages, control surfaces, and wings • Assessing damages and determining structural repairs required for specific materials • Identifying suitable materials, rivets, and hardware for structural repairs • Removing and replacing aircraft skins, ribs, stringers, spars, and related components • Blueprint reading • Laying out pattern for specific structural repair • Proper use of hand and power tools in the repair of aircraft fuselages, empennages, control surfaces, and wings • Performing corrosion detection, treatment, and prevention on aircraft fuselages, empennages, control surfaces, and wings
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3 & 2, Chapters 1, 2, and 13 (NAVEDTRA 12338) • Use and Care of Hand Tools and Measuring Tools, Chapters 2, 3, 5, 8, 12-14, 21, 22, 27, 28, and 31 (NAVEDTRA 12085) • Aviation Maintenance Ratings, Chapter 4 (NAVEDTRA 12017) • Blueprint Reading and Sketching, Chapters 1-4 and 8 (NAVEDTRA 12014) • General Manual for Structural Repair, Chapters 2-5, 8, and 9 (NAVAIR 01-1A-1) • Structural Hardware, Chapters 2-5, 7, and 8 (NAVAIR 01-1A-8)

	<ul style="list-style-type: none"> • Aerospace Metals-General Data and Usage Factor, Chapter 3 (NAVAIR 01-1A-9) • All applicable NAVAIR Structural Repair Manuals • All applicable activity's instructions and standard operating procedures
<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about different types of metals and hardware used to repair aircraft fuselages, empennages, control surfaces, and wings. In addition, you can expect questions about inspecting and assessing structural damage and adjusting and aligning different empennages, control surfaces, and related structural components. You may also see questions about interpreting blueprints, performing pattern layouts, and corrosion prevention and treatment. These questions may be of general nature or specific to a type of aircraft fuselage, empennage, control surface, wing, or structural repair.</p>

Part 2

Advancement Handbook for AMH2

Advancement Handbook for AMH2

General AMH <i>Skill Area</i>	HOSE AND TUBE REPAIR/ MANUFACTURING
A <i>skill</i> you are expected to perform from the General Skill Area above:	Inspect and replace rigid tubing and hardware
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Inspecting, testing, and troubleshooting hydraulic and pneumatic tubing • Removing and replacing hydraulic and pneumatic tubing and related hardware • Manufacturing and bench testing hydraulic and pneumatic tube assemblies • Servicing and performing functional checks of hydraulic and pneumatic systems • Performing corrosion detection, treatment, and prevention on hydraulic and pneumatic power system components
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3&2, Chapters 1 and 12 (NAVEDTRA 12338) • Aircraft Weapons Systems Cleaning and Corrosion Control Manual, Chapters 2, 3, 4, 5, 6, and 8 (NAVAIR 01-1A-509) • Aviation Hydraulics Manual, Chapters 3, 6, 8, and 9 (NAVAIR 01-1A-17) • Hose and Tube Manual, Chapters 2, 4, 6, 7, and 9 (NAVAIR 01-1A-20) • All applicable NAVAIR Maintenance Instructions Manuals • All applicable activity's instructions and standard operating procedures

<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about the different types of hydraulic and pneumatic tubing, to include inspection types, testing, troubleshooting, and removing and replacing of tube assemblies and related hardware. You can also expect questions about manufacturing and bench testing tube assemblies, along with servicing and performing hydraulic patch tests. In addition you may see questions regarding corrosion identification, detection, treatment, and prevention on tube assemblies and hardware. These question maybe of general nature or specific to a type of hydraulic or pneumatic system or tube assembly.</p>
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Advancement Handbook for AMH2

General AMH <i>Skill Area</i>	STRUCTURAL REPAIR/MAINTENANCE
A <i>skill</i> you are expected to perform from the General Skill Area above:	Maintain aircraft ribs, fuselages, and composite materials
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Inspecting aircraft structural skins, ribs, longerons, stringers and spars for damages • Assessing different types of damages and determining what kind of structural repair is required for a specific material and type of repair • Identifying suitable metals, rivets, and hardware for structural repairs • Removing and replacing aircraft structures and related components • Blueprint reading • Laying out patterns for specific structural repairs • Proper use of basic tools and power tools in fabrication of aircraft ribs, stringers, and skins • Corrosion detection, treatment, and prevention on aircraft structures and skins
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3 & 2, Chapters 1, 2, and 13 (NAVEDTRA 12338) • Use and Care of Hand Tools and Measuring Tools, Chapters 2, 3, 5, 8, 12-14, 21, 22, 27, 28, and 31 (NAVEDTRA 12085) • Aviation Maintenance Ratings, Chapter 4 (NAVEDTRA 12017) • Blueprint Reading and Sketching, Chapters 1-4 and 8 (NAVEDTRA 12014) • General Manual for Structural Repair, Chapters 2- 5, 8, and 9 (NAVAIR 01-1A-1) • Structural Hardware, Chapters 2-5, 7, and 8 (NAVAIR 01-1A-8)

	<ul style="list-style-type: none"> • Aerospace Metals-General Data and Usage Factor, Chapter 3 (NAVAIR 01-1A-9) • All applicable NAVAIR Structural Repair Manuals • All applicable activity's instructions and standard operating procedures
<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about different types of metals and hardware used in repairing aircraft skins, ribs, longerons, and stringers. In addition you can expect questions about inspection and assessment of structural damage limitation on aircraft structures and composite materials. You can also expect questions relating to interpreting blueprints and flat layouts. These questions maybe of general nature or specific to a type of aircraft structural repairs.</p>

Advancement Handbook for AMH2

General AMH <i>Skill Area</i>	MAINTENANCE ADMINISTRATION
A <i>skill</i> you are expected to perform from the General Skill Area above:	Review and correct Daily Audit Reports (DAR)
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Fundamentals and concepts of Maintenance Data System (MDS) Program • Identifying systems or subsystems interrelated under MDS program such as Maintenance Data Reports (MDR), Subsystem Capability Impacting Report (SCIR), Material Report (MR), and Utilization Report • Inducting and tracking VIDS/MAFs through complete process for all maintenance actions • Reviewing Daily Audit Reports (DAR), recognizing errors, and taking actions required to correct discrepancies via resubmission to Data Support Facility (DSF) • Recognizing and reviewing information contained in the different Maintenance Data Reports (DAR and MDR-2 through MDR-13) • Reviewing and verifying MDR-2 against the DAR for accuracy and correcting errors found • Identifying and recognizing different reports under the SCIR Program, such as SCIR-3 through SCIR-5, and familiarizing yourself with how they impact the work center and it's ability to perform daily or monthly maintenance
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Maintenance Ratings, Chapter 1 (NAVADTRA 12017) • The Naval Aviation Maintenance Program (NAMP) Volume III, Chapters 2 and 3 (OPNAVINST 4790.2)

	<ul style="list-style-type: none"> • All applicable NAVAIR Maintenance Instruction Manuals • All applicable activity's instructions and standard operating procedures
<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about the fundamentals, purposes, and concepts of the Maintenance Data System (MDS) and it's application toward the daily workload. You may also expect questions about different types of MDR, SCIR, MR, and Monthly Utilization Reports. In addition you may see questions on reviewing Daily Audit Reports for accuracy and procedures for making corrections when required. These questions maybe of general nature or specific to a particular type of report under the Maintenance Data System.</p>

Part 3

Advancement Handbook for AMH1

Advancement Handbook for AMH1

General AMH Skill Area	FLIGHT CONTROL SYSTEMS ROTARY
A <i>skill</i> you are expected to perform from the General Skill Area above:	Maintain main rotor, tail rotor, and blade fold systems
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Inspecting main and tail rotor blade assemblies • Assessing damage and identifying repair types and materials for non-metallic repairs • Proper repair procedures for composite materials • Use of special equipment and tools to perform different types of repairs on composite materials • Inspecting, testing, and troubleshooting blade fold systems • Removing and replacing components of the blade fold system • Repairing, overhauling, and bench testing components of the blade fold system • Corrosion detection, treatment, and prevention on main rotor, tail rotor, and blade fold system components
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Structural Mechanic (H&S) 3 & 2, Chapters 1, 2, 10, and 14 (NAVEDTRA 12338) • Aviation Maintenance Ratings, Chapter 5 (NAVEDTRA 12017) • Structural Hardware Manual, Chapters 2, 3, 5, 6, and 7 (NAVAIR 01-1A-8) • Blueprint Reading and Sketching, Chapters 1-4 and 8 (NAVEDTRA 12014) • General Manual for Structural Repair, Chapters 2-5, 8, and 9 (NAVAIR 01-1A-1) • Aircraft Weapons Systems Cleaning and Corrosion Control, Chapters 2-6 and 8 (NAVAIR 01-1A-509) • All applicable NAVAIR Maintenance Instruction Manuals

	<ul style="list-style-type: none"> • All applicable NAVAIR Structural Repair Manuals • All applicable activity's instructions and standard operating procedures
<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions on inspecting, assessing damage, and identifying repair types for main and tail rotor assemblies. In addition you can also expect to see questions about repair procedures and use of special equipment and tools required to perform composite repairs. You can expect to see questions about inspecting, testing, troubleshooting, removing, replacing, repairing, and overhauling blade fold system components. In addition you may also see questions relating to corrosion detection, treatment, and prevention on main and tail rotor blades and blade fold system components. These questions may be of a general nature or specific to a type of rotor blade system or repair procedure.</p>

Advancement Handbook for AMH1

General AMH <i>Skill Area</i>	AVIATION SUPPORT
A <i>skill</i> you are expected to perform from the General Skill Area above:	Review supply department HAZMAT Users Guide
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Retrieve and interpret MSDS data • Access data contained in the HMUG and SHML on the HMC&M CD-ROM • Recall safe handling procedures • Recall storage and temperature restrictions for flammables, combustibles, corrosives, acids, oxidizers, alcohol, acetylene, oxygen, chlorine, and compressed gas cylinders • Define work related terms
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • DOD 6050.5-L/LR, Hazardous Material Information System (HMIS) • NAVSUPINST 4030.55 (series), Packaging of Hazardous Material • NAVSUPINST 4440.128 (series), Storage and Handling of Compressed Gasses and Liquids in Cylinders, and of Cylinders • OPNAVINST 5100.19 (series), Navy Occupational Safety and Health (NAVOSH) Program Manual for Forces Afloat, Chapters B3, C23, and C24

<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect to see a wide range of questions dealing with identification, safety, storage, and shipping procedures. You will also see questions about temperature limitations, groups of HAZMAT, fire suppression requirements, material stowage compatibility, gas cylinder identification and storage, and safety equipment. In addition you can expect question about information contained in the MSDS and HMUG.</p>
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Part 4

Advancement Handbook for AMHC

Advancement Handbook for AMHC

General AMH <i>Skill Area</i>	QUALITY ASSURANCE
A <i>skill</i> you are expected to perform from the General Skill Area above:	Review and perform Quality Assurance Audits
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Requirements of the Quality Assurance (QA) Audit Program • Responsibilities under the Quality Assurance Audit Program • Identify types of audits • Identify programs managed and monitored by the QA Division • Characteristics and use of the Computerized Self-Evaluation Checklist (CSEC) • Procedures for performing QA audits
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Naval Aviation Maintenance Program, Volume I, Chapter 14 (OPNAVINST 4790.2) • Naval Aviation Maintenance Program, Volume V, Chapter 8 (OPNAVINST 4790.2)
<i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:	You can expect questions about performing quality assurance audits. These questions will include all aspects of the Quality Assurance Audit Program, program requirements, responsibilities, types of audits, managed and monitored programs, CSEC, and audit procedures.

Advancement Handbook for AMHC

General AMH <i>Skill Area</i>	CORROSION CONTROL
A <i>skill</i> you are expected to perform from the General Skill Area above:	Manage the Corrosion Control and Emergency Reclamation Program
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Qualification requirements for the Corrosion Control and Emergency Reclamation Programs • Selecting materials for specific types of aircraft corrosion control • Detecting, identifying, and treating corrosion • Mixing and applying aircraft paints and primers • Preventing corrosion and preserving aircraft and equipment • Maintaining corrosion control tools and equipment • Procedures for performing emergency reclamation • Researching instructions, manuals, and publications pertaining to specific aircraft • Researching instructions, manuals, and publications pertaining to emergency reclamation • Identifying, storing, and disposing of hazardous materials • Researching and complying with hazardous material instructions and safety regulations
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Maintenance Ratings, Chapter 4 (NAVEDTRA 12017) • Aviation Structural Mechanic (H&S) 3&2, Chapters 11 and 12 (NAVEDTRA 12338) • Aircraft Weapons Systems Cleaning and Corrosion Control, All Chapters (NAVAIR 01-1A-509) • Avionics Cleaning and Corrosion Prevention Manual, All Chapters (NAVAIR 16-1-540) • Naval Aviation Maintenance Program (NAMP) Volume I, Chapter 10 (OPNAVINST 4790.2)

	<ul style="list-style-type: none"> • Naval Aviation Maintenance Program (NAMP) Volume V, Chapters 14 and 20 (OPNAVINST 4790.2) • DOD 6050.0-L/LR, Hazardous Material Information System (HMIS) • OPNAVINST 5100.19 (series), Navy Occupational Safety and Health (NAVOSH) Program Afloat, Chapters B3, C23, and C24 • All applicable NAVAIR Maintenance Instruction Manual • All applicable activity's instructions and standard operating procedures
<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about detection, identification, treatment, and prevention of corrosion on naval aircraft, and the preservation and emergency reclamation of naval aircraft. You can also expect questions on procedures for mixing and applying paints and primers and maintenance of painting equipment. In addition, you may see question relating to publications, manuals, or instructions for specific guidelines relating to a particular aircraft or program. You can also expect to see question relating to hazardous materials, to include identification, storage, disposal, MSDS, and protective equipment. These questions maybe of general nature or of specific to a particular type of material, equipment, aircraft, or program.</p>

Advancement Handbook for AMHC

General AMH <i>Skill Area</i>	MAINTENANCE ADMINISTRATION
A <i>skill</i> you are expected to perform from the General Skill Area above:	Perform maintenance and production control briefs
<i>Knowledge</i> you should have to perform this skill:	<ul style="list-style-type: none"> • Responsibilities of maintenance and production control supervisors • Qualification requirements for maintenance and production control supervisor (i.e. project priority codes, certify aircraft safe for flight, work load priority, logs and records, etc.) • Planing and conducting maintenance and production meetings • Reviewing Daily Workload Reports • Reviewing aircraft history records, logbooks, and aircraft discrepancy books • Scheduling aircraft and support equipment inspections • Incorporating and documenting Technical Directives (TDs), Airframe Changes (AFCs), and Airframe Bulletins (AFBs) • Setting priorities for daily work loads • Briefing and debriefing of flight crews and maintenance personnel • Preparing and reviewing aircraft manifests for mission accuracy
<i>References</i> you should study to gain the knowledge you need to perform this skill:	<ul style="list-style-type: none"> • Aviation Maintenance Ratings, Chapters 1, 2, and 5 (NAVEDTRA 10217) • Naval Aviation Maintenance Program (NAMP) Volume I, Chapters 7, 8, 11, 12, 15, 16, and 17 (OPNAVINST 4790.2) • Naval Aviation Maintenance Program (NAMP) Volume III, Chapters 1- 9 (OPNAVINST 4790.2)

	<ul style="list-style-type: none"> • Naval Aviation Maintenance Program (NAMP) Volume V, Chapters 10, 11, 18, and 21 (OPNAVINST 4790.2) • All applicable NAVAIR Maintenance Instruction Manuals • All activity's instructions and standard operating procedures
<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about the responsibilities and operations of production control and maintenance. You may also see question regarding aircraft logbooks, discrepancy reports, daily workloads, and schedules of different types of aircraft and support equipment inspections. In addition, you can expect questions about Technical Directives (TDs), Airframe Changes (AFCs), and Airframe Bulletins (AFBs) documentation and incorporation, along with briefing and debriefing of flight crews and maintenance personnel. These questions maybe of general nature or specific to a maintenance and production control action or function.</p>

Appendix A

References Used in This Advancement Handbook

Rating	Short Title	Long Title	Chapters/ Paragraphs	Stocking Point
AMH3	NAVEDTRA 12338	Aviation Structural Mechanic (H&S) 3&2	Chapters 1- 15 and Appendix I	Note 1
	NAVEDTRA 12017	Aviation Maintenance Ratings	Chapters 2-5	Note 1
	NAVEDTRA 12014	Blueprint Reading and Sketching	Chapters 1-4 and 8	Note 1
	NAVEDTRA 12085	Use and Care of Hand Tools and Measuring Tools	Chapters 2- 5, 8, 12-14, 21, 22, 27, 28, and 31	Note 1
	NAVAIR 00-80T-96	Basic Handling & Safety Manual	Work Package 10	Note 1
	NAVAIR 01-1A-1	General Manual for Structural Repair	Chapters 2- 12	Note 1
	NAVAIR 01-1A-8	Structural Hardware Manual	Chapters 2-9 and 13	Note 1
	NAVAIR 01-1A-9	Aerospace Metals General Data and Usage Factors	Chapters 2 and 3	Note 1
	NAVAIR 01-1A-17	Aviation Hydraulics Manual	Chapters 1-9	Note 1
	NAVAIR 01-1A-20	Hose and Tube Manual	Chapters 2-9	Note 1
	NAVAIR 01-1A-509	Aircraft Weapons Systems Cleaning and Corrosion Control	Chapters 1-9 and Appendices A, B, C, & D	Note 1
	NAVAIR 04-10-1	Aircraft Wheels	Chapters 2 and 3	Note 1
	NAVAIR 04-10-506	Aircraft Tires and Tubes	Chapters 2-6	Note 1
	NAVAIR 15-01-500	Preservation of Naval Aircraft	Chapters 1-4	Note 1
	NAVAIR 16-1-540	Avionics Cleaning and Corrosion Prevention/Control	Chapters 2-5	Note 1

Rating	Short Title	Long Title	Chapters/ Paragraphs	Stocking Point
AMH3 (Cont)	OPNAVINST 4790.2G Volume I	The Naval Aviation Maintenance Program (NAMP)	Chapter 16	Note 2
	OPNAVINST 4790.2G Volume III	The Naval Aviation Maintenance Program (NAMP)	Chapter 8	Note 2
	OPNAVINST 4790.2G Volume V	The Naval Aviation Maintenance Program (NAMP)	Chapters 6 and 16	Note 2
AMH2	NAVEDTRA 12017	Aviation Maintenance Ratings	Chapters 1 and 4	Note 1
	NAVEDTRA 12014	Blueprint Reading and Sketching	Chapters 1-4 and 8	Note 1
	NAVEDTRA 12338	Aviation Structural Mechanic (H&S) 3&2	Chapters 1, 2, 12, and 13	Note 1
	NAVEDTRA 12085	Use and Care of Hand Tools and Measuring Tools	Chapters 2, 3, 5, 8, 12-14, 21, 22, 27, 28, and 31	Note 1
	NAVAIR 01-1A-1	General Manual for Structural Repair	Chapters 2- 5, 8, and 9	Note 1
	NAVAIR 01-1A-8	Structural Hardware Manual	Chapters 2- 5, 7, and 8	Note 1
	NAVAIR 01-1A-9	Aerospace Metals General Data and Usage Factors	Chapter 3	Note 1
	NAVAIR 01-1A-17	Aviation Hydraulics Manual	Chapters 3, 6, 8, and 9	Note 1
	NAVAIR 01-1A-20	Hose and Tube Manual	Chapters 2, 4, 6, 7, and 9	Note 1
	NAVAIR 01-1A-509	Aircraft Weapons System Cleaning and Corrosion Control	Chapters 2-6 and 8	Note 1
	OPNAVINST 4790.2G Volume III	The Naval Aviation Maintenance Program (NAMP)	Chapters 2 and 3	Note 2
AMH1	NAVEDTRA 12338	Aviation Structural Mechanic (H&S) 3&2	Chapters 1, 2, 10, and 14	Note 1
	NAVEDTRA 12017	Aviation Maintenance Ratings	Chapter 5	Note 1
	NAVEDTRA 12014	Blueprint reading and Sketching	Chapters 1-4 and 8	Note 1

Rating	Short Title	Long Title	Chapters/ Paragraphs	Stocking Point
AMH1 (Cont)	NAVAIR 01-1A-1	General Manual for Structural Repair	Chapters 2-5, 8, and 9	Note 1
	NAVAIR 01-1A-8	Structural Hardware Manual	Chapters 2, 3, 5, 6, and 7	Note 1
	NAVAIR 01-1A-509	Aircraft Weapons System Cleaning and Corrosion Control	Chapters 2-6 and 8	Note 1
	DOD 6050.5-L/LR	Hazardous Material Information system (HMIS)	User Guide	Note 1
	NAVSUPINST 4030.55	Packaging of Hazardous Materials	ALL	Note 1
	OPNAVINST 5100.19	Navy Occupational Safety and Health (NAVOSH) Program for Forces Afloat	Chapters B3, C23, and C24	Note 2
AMHC	NAVEDTRA 12017	Aviation Maintenance Ratings	Chapters 1, 2, 4, and 5	Note 1
	NAVEDTRA 12338	Aviation Structural Mechanic (H&S) 3&2	Chapters 11 and 12	Note 1
	NAVIAR 01-1A-509	Aircraft Weapons System Cleaning and Corrosion Control	ALL	Note 1
	NAVAIR 16-1-540	Avionics Cleaning and Corrosion Prevention Manual	ALL	Note 1
	DOD 6050.5-L/LR	Hazardous Material Information System	Users Guide	Note1
	OPNAVINST 4790.2G Volume I	The Naval Aviation Maintenance Program (NAMP)	Chapters 7, 8, 10-12, and 14-17	Note 2
	OPNAVINST 4790.2G Volume III	The Naval Aviation Maintenance Program (NAMP)	Chapters 1-9	Note 2
	OPNAVINST 4790.2G Volume V	The Naval Aviation Maintenance Program (NAMP)	Chapter 8, 10, 11, 14, 18, 20, and 21	Note 2
	OPNAVINST 5100.19	Navy Occupational Safety and Health (NAVOSH) Program for Forces Afloat	Chapters B3, C23, and C24	Note 2

LEGEND:

Note 1 – To order, MILSTRIP to NAVICP PHILA or via INTERNET - <http://www.nll.navsup.navy.mil>

Note 2 – INTERNET - <http://neds.nebt.daps.mil/>